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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/828,502	03/31/1997	MARK A. RUNKLE	839-377	5041

7590 09/15/2003

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ARLINGTON, VA 22201

EXAMINER
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BERHANE, ADOLF D

ART UNIT	PAPER NUMBER
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2838

DATE MAILED: 09/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	08/828,502		RUNKLE ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Adolf Berhane		2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 May 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-8,15-18 and 24-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,2,4-8,15-18 and 24 is/are allowed.
- 6) ☒ Claim(s) 25-27 is/are rejected.
- 7) ☒ Claim(s) 28 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Rauhut et al. (US 3,471,708).

Rauhut et al ('708) disclose in Figs. 1 and 2 an electrical interconnection system, comprising a rotary transformer A for coupling a first electrical system II to a second electrical system I, comprising a rotor Ar connected to the first electrical system; a stator As connected to the second electrical I; a controller (excitation circuitry of auxiliary motor G or M; not shown) which adjusts an angular position of the rotary transformer; a torque control unit G or M for rotating the rotor, wherein the control unit is a motor; and a gear K for interfacing the motor with the rotor. The auxiliary machine is used for turning the rotor. See col. 1, line 68 to col. 2, line 11. Rauhut et al. also disclose in Col. 5, lines 29+ that the machine is rigidly coupled (integrated) with the stator and the rotor in a squirrel cage inductor or wound rotor configuration, and in Col. 1, lines 58+ that intermediate transformers can also be provided. Lastly, Rauhut et al. disclose in Col. 5, lines 21 that the regulating circuit (controller) provides adequate damping.

3. Claims 1, 2, 4-8, 15-18 and 24 allowed.

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4. Claim 28 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

5. Applicant's arguments filed 5/19/03 have been fully considered but they are not persuasive. Applicant argues that claim 25 includes a closed loop angular positioning control system which operates a rotary transformer for transferring power from the first electrical system to the second electrical system in not shown in Rauhut's patents. Applicant's attention is directed to Rauhut et al ('708) Figs. 1 and 2 which shows an electrical interconnection system, comprising a rotary transformer A for coupling a first electrical system II to a second electrical system I, comprising a rotor Ar connected to the first electrical system; a stator As connected to the second electrical I; a controller (excitation circuitry of auxiliary motor G or M; not shown) which adjusts an angular position of the rotary transformer; a torque control unit G or M for rotating the rotor, which means a closed loop system which operated to transfer power from one electrical system to a second electrical system. Applicant does not define a closed loop system in the specification. With respect to claim 28, it has been objected to, as being dependent upon a rejected base claim 27 would be allowable if rewritten in independent form. With respect to the step of adjusting an angular position, Rauhut patent ('708) teach the use of a controller which adjust an angular position of the rotary transformer so that power is transferred from the first electrical system to the second electrical system.

***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 703-308-3299. The examiner can normally be reached on 10-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 703-308-1680. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0658.

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A handwritten signature in black ink, appearing to read "Adolf Berhane". The signature is fluid and cursive, with a long horizontal stroke at the end.

Adolf Berhane  
Primary Examiner  
Art Unit 2838